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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 0095/025001 |
| INTERNATIONAL APPLICATION NO. PCT/JP2005/005187 | | U.S. APPLICATION NO. (if known) see 37 CFR 1.5 10/593489 |
| INTERNATIONAL FILING DATE March 23, 2005 | | PRIORITY DATE CLAIMED March 25, 2004 |
| TITLE OF INVENTION SWELLING/CONTRACTING FILTER | | |
| APPLICANT(S) FOR DO/EO/US Tooru SEKIYA, Masakatsu WATANABE and Teruo SUGIZAKI | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/593489 | INTERNATIONAL APPLICATION NO. PCT/JP2005/005187 | ATTORNEY'S DOCKET NUMBER 0095/025001 | |
| 20. Other items or information: <div style="text-align: center;">(Continued on attached page)</div> | | | |
| The following fees have been submitted | | CALCULATIONS | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) \$300 | | \$ 300.00 | |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) | | \$ 200.00 | |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ... \$0 All other situations ... \$200 | | | |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ... \$400 All other situations ... \$500 | | \$ 400.00 | |
| TOTAL OF 21, 22 and 23 = | | 900.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE |
| 21 - 100 = | 0 /50 = | 0 | x \$250 |
| | | \$ 0.00 | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE |
| Total claims | 5 - 20 = | 0 | x \$50 |
| Independent claims | 1 - 3 = | 0 | x \$200 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | + \$360 | |
| TOTAL OF ABOVE CALCULATIONS = | | \$ 900.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | |
| SUBTOTAL = | | \$ 900.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | \$ | |
| TOTAL NATIONAL FEE = | | \$ 900.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | \$ 40.00 | |
| TOTAL FEES ENCLOSED = | | \$ 940.00 | |
| | | Amount to be refunded: | \$ |
| | | Amount to be charged | \$ |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.


- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-2586. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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REGISTRATION NUMBER

10/593489

Applicants: Tooru SEKIYA et al.
Application No.: filed concurrently
Title: SWELLING/CONTRACTING FILTER
International Application No.: PCT/JP2005/005187
International Filing Date : March 23, 2005
Priority Date : March 25, 2004
U.S. Filing Date : September 20, 2006
Attorney's Docket No. : 0095/025001

ATTACHMENT PAGE FOR TRANSMITTAL LETTER

Applicant submits the following items of information:

Point No. 20: Continued below

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|---|---------|
| 1) Information Disclosure Statement | 2 Pages |
| 2) PTO-1449 Form (in duplicate) | 1 Page |
| 3) 3 References, 1 English Translation and 3 English Abstracts | |
| 4) Form PCT/ISA/210, English Translation of International Search Report | 1 Page |
| 5) Form PCT/ISA/210, International Search Report | 1 Page |
| 6) Form PCT/ISA/237, Written Opinion of the International Searching Authority | 3 Pages |
| 7) Form PCT/IB/301, Notification of Receipt of Record Copy | 3 Pages |
| 8) Form PCT/IB/304, Notification Concerning Submission or Transmittal of Priority Document | 1 Page |
| 9) Form PCT/IB/307, Notification of Withdrawal of International Application or Designations | 1 Page |
| 10) Form PCT/IB/308, Notice Informing the Applicant of the Communication of the International Application to the Designated Offices | 2 Pages |
| 11) Form PCT/IB/311, Notice Concerning Transmittal of Copy of International Application as Published or Republished | 1 Page |
| 12) Copy of the Cover Pages of the International Publication WO 2005/092471 | 2 Pages |

IAP16 Rec'd PCT/PTO 20 SEP 2006

10/593489

**APPLICATION
FOR
UNITED STATES LETTERS PATENT**

TITLE: SWELLING/CONTRACTING FILTER

**INVENTORS: Tooru SEKIYA
Masakatsu WATANABE
Teruo SUGIZAKI**